GSM EFR ALEX_P4

DUAL RF SWITCH

LNA

REC. FRONT END

MIXER

ISO. AMP

VCO

PA BIAS CONTROL

PA OUTPUT MATCH

IPA

PA INPUT MATCH

TX_ATTENUATOR

TX_VCO

947.4Mhz

794.4Mhz

902.4Mhz

153Mhz

108Mhz

RX275

RX_EN

TX_EN

FX_EN

RF_START

SW_RF

RXQ

IQ.REF

RXI

TXQ_P

TXQ_M

TXI_P

TXI_M

CLK_13IN

RF_SPI

RF_SCK

AFC

VREF

NOTE:

All other connections are ground.

On layer 5
W=7 mil
L=780 mil

On layer 5
W=7 mil
L=700 mil

On layer 5
W=7 mil
L=400 mil

On layer 5
W= 7mil
L= 800mil

On layer 5
W= 7mil
L= 925mil

On layer 6
W=30mil
L=700mil

On layer 6
W=15mil
L=300mil

On layer 5
W= 11mil
L=450mil

On layer 5
W=15mil
L=48.5mil

On layer 5
W=30mil
L=300mil

20 dB Coupler

on layers
W(layer5)=7mil
W(layer6)=30mil
L=261mil

COMPONENTS IN THIS AREA CAN BE OPTIONALLY PLACED IN VCO CAN SPACE PERMITTING.

C257 AND C251 SHOULD BE CLOSE TO L211 AND L210 RESP.

U201 GF_SYN_3_2

U300 I2C_GEN-PCN_S01C14

U301 IPA_GEN_EV

U310 EC1105A831D

U911 AS1905-PBG

Europe, Middle East & Africa
Customer Services
Level 4 Authorised

PLOT WITH SCALE OF 0.7

REVISIONS

Europe Middle East & Africa Customer Services	08.01.99
LEVEL 4 SCHEMATICS	Rev. 1.0
GSM EFR ALEX	
Ralf Lorenzen, Colin Jack, Michael Hansen, Ray Collins	Page 2of 3

GSM EFR TRANSCEIVER BOARD

SHEET 2

ISS.	COMMENTS	DATE
P1	COPIED FROM GSM RAC COSMO ISS D	4/25/98
P2	COPIED FROM GSM RAC COSMO ISS A	7/22/98
P3	LOGIC CHANGES	9/03/98